

Customer No.: 31561
Application No.: 10/605,400
Docket No.: 11142-US-PA

AMENDMENTS

In The Claims

Claim 1. (currently amended) An optical device, comprising:

a plurality of rods, wherein the rods are arranged by a photonic crystal structure;

a plurality of light input ports;

a plurality of light output ports;

wherein at least one of the light input ports is adopted for inputting a light, and at least one of the light output ports is adopted for outputting the light, wherein a path of the light in the rods forms a light path; and

a defect of rod located in the light path.

Claim 2. (currently amended) The optical device of ~~Claim~~ claim 1, wherein a plurality of output lights of the light that outputted from the light output ports have the same intensities.

Claim 3. (currently amended) An optical device, comprising:

a plurality of holes, wherein the holes are arranged by a photonic crystal structure;

a plurality of light input ports;

a plurality of light output ports;

wherein at least one of the light input ports is adopted for inputting a light, and at least one of the light output ports is adopted for outputting the light, wherein a path of the light in the rods forms a light path; and

Customer No.: 31561
Application No.: 10/605,400
Docket No.: 11142-US-PA

a defect of hole located in the light path.

Claim 4. (currently amended) The optical device of ~~Claim 1~~ claim 3, wherein a plurality of output lights of the light that outputted from the light output ports have the same intensities.

Claim 5. (currently amended) An optical device, comprising:
a plurality of rods, wherein the rods are arranged by a photonic crystal structure;
a plurality of light input ports;
a plurality of light output ports;
wherein at least one of the light input ports is adopted for inputting a light, and at least one of the light output ports is adopted for outputting the light, wherein a path of the light in the rods forms a light path; and
a defect of rod located in the light path;
wherein a plurality of output lights of the light that outputted from the light output ports have the same intensities.

Claim 6. (currently amended) An optical device, comprising:
a plurality of holes, wherein the holes are arranged by a photonic crystal structure;
a plurality of light input ports;
a plurality of light output ports;
wherein at least one of the light input ports is adopted for inputting a light, and at least one of the light output ports is adopted for outputting the light, wherein a path of the

Customer No.: 31561
Application No.: 10/605,400
Docket No.: 11142-US-PA

light in the rods forms a light path; and

a defect of hole located in the light path;

wherein a plurality of output lights of the light that outputted from the light output
ports have the same intensities.

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